ABSTRACT

A photosensitive metal nanoparticle and a method of forming a conductive pattern using the same, wherein a self-assembled monolayer of a thiol compound or isocyanide compound having a terminal reactive group is formed on a surface of the metal nanoparticle and a photosensitive group is introduced to the terminal reactive group. The photosensitive metal nanoparticles can easily form a conductive film or pattern having excellent conductivity upon exposure to UV, and thus can be applied for antistatic washable sticky mats or shoes, conductive polyurethane printer rollers, electromagnetic interference shielding, etc.